

WEST Search History

DATE: Tuesday, May 06, 2003

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| <i>side by side</i> | | | |
| | <i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE;</i> | | |
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| L4 | L3 and (electroplat\$6 or electroly\$6 or electrochem\$6 or electrodeposit\$6) | 276 | L4 |
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| L2 | L1 and ((remov\$6 or wip\$6 or brush\$6 or sweep\$6 or swab\$6 or scrap\$6 or pad46 or rub\$6 or buff\$6 or polish\$6) near8 (additive\$3 or suppressor\$3 or accelerator\$3 or leveler\$3 or brightener\$3 or wetting or surfactant\$3)) | 4125 | L2 |
| L1 | (additive\$3 or suppressor\$3 or accelerator\$3 or leveler\$3 or brightener\$3 or wetting or surfactant\$3) near10 (via\$3 or hole\$3 or feature\$3 or channel\$3 or opening\$3 or trench\$3 or cavit\$6 or passage\$5) | 35321 | L1 |

END OF SEARCH HISTORY

Patent Assignment Abstract of Title

Total Assignments: 1

Application #: 09961193 **Filing Dt:** 09/20/2001 **Patent #:** NONE
PCT #: NONE

Issue Dt:
Publication #: NONE **Pub Dt:**

Inventor: Bulent M. Basol

Title: Plating method and apparatus for controlling deposition on predetermined portions of a workpiece

Assignment: 1

| Reel/Frame: | Received: | Recorded: | Mailed: | Pages: |
|--------------------|------------------|------------------|----------------|---------------|
| <u>012510/0039</u> | 01/30/2002 | 01/22/2002 | 03/25/2002 | 2 |

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Exec Dt: 12/04/2001

Assignor: BASOL, BULENT

Assignee: NUTOOL, INC.

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Web interface last modified: Oct. 5, 2002

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L4: Entry 274 of 276

File: JPAB

Oct 19, 2001

PUB-N0: JP02001291954A
DOCUMENT-IDENTIFIER: JP 2001291954 A
TITLE: VIA-FILLING PLATING METHOD

PUBN-DATE: October 19, 2001

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|-----------------|---------|
| NAKAMURA, KENJI | |
| NAKAZAWA, MASAO | |

ASSIGNEE-INFORMATION:

| NAME | COUNTRY |
|----------------------------|---------|
| SHINKO ELECTRIC IND CO LTD | |

APPL-NO: JP2000334044

APPL-DATE: November 1, 2000

INT-CL (IPC): H05 K 3/42; H05 K 3/18; H05 K 3/40; H05 K 3/46

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a via-filling plating method capable of satisfactorily filling even the via hole of a large aspect ratio and a small diameter with copper plating.

SOLUTION: This method is provided with a copper coating forming process for forming copper coating 21 on the wall surface of a substrate 20, including the front surface of an insulating layer 12 and the bottom surface of a via hole 14, an immersing process for sticking a plating accelerator on the surface of copper coating 21 by immersing the substrate 20 formed with copper coating 21 in an aqueous solution added with the plating accelerator, a releasing process for removing the plating accelerator 22 stuck on the surface of copper coating 21 except for the inner wall surface including the bottom surface of the via hole 14, and an electrolytic copper plating process for filling the via hole 14 with a plating metal by applying electrolytic copper plating onto copper coating 21, formed on the surface of the insulating layer 12 and on the wall surface including the bottom surface of the via hole 14 after the releasing process.

Seed →
removing
accelerator

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